BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of work: Estimate for Improvements to Roads and Drains at Byrappa Garden in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Job No. 010-16-000038		P-1878					Estimate Cost Rs.		987000.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 141 / Item No. 19.1 / PWD SR 2015-16**	Cum							
	Tank Flatform		2	1.50	0.60	1.00	1.80		
			2	0.60	0.60	1.00	0.72		
	Byrappa Garden For CC Road1st Cross		1	75.00	4.50	0.15	50.63		
	2nd Cross		1	20.00	4.50	0.15	13.50		
							66.65	81.62	**5440.00**
	Basic Rate	77.00							
	Area Weightage @ 6%	4.62							
	Total	**81.62**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2015-16**	Cum							
			2	1.50	0.60	0.15	0.27		
			2	0.60	0.60	0.15	0.11		
	Byrappa Garden For CC Road1st Cross		1	75.00	4.50	0.15	50.63		
	2nd Cross		1	20.00	4.50	0.15	13.50		
							64.50	4976.70	**321012.00**
	Basic Rate	4695.00							
	Area Weightage @ 6%	281.70							
	Total	**4976.70**							
3	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 **Page No. 23 / Item No. 5.6 / PWD SR 2015-16**	Cum							
	Below Ground Level for Tank Flatform		2	1.50	0.60	0.90	1.62		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			2	0.60	0.60	0.90	0.65		
							2.27	4058.74	**9205.00**
	Basic Rate	3829.00							
	Area Weightage @ 6%	229.74							
	Total	**4058.74**							
4	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 23 / Item No. 5.9 / PWD SR 2015-16**	Cum							
	Below Ground Level for Tank Flatform		2	1.50	0.45	0.90	1.22		
			2	0.60	0.45	0.90	0.49		
							1.70	4814.52	**8189.00**
	Basic Rate	4542.00							
	Area Weightage @ 6%	272.52							
	Total	**4814.52**							
5	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6 / PWD SR 2015-16**	Cum							
	Concrete for Flatform		1	1.50	1.50	0.10	0.23		
	Bottom Flatform		4	2.50	0.90	0.10	0.90		
							1.13	5389.04	**6063.00**
	Basic Rate	5084.00							
	Area Weightage @ 6%	305.04							
	Total	**5389.04**							
6	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms, in depth, compacting each deposited layers by ramming after watering with lead upto 50m, and lift upto 1.5m, including cost of all labour complete as per specifications, specification. No. KBS 2.9, **Page No. 6 / Item No. 2.10 / PWD SR 2015-16**	Cum							
			Qty Vide Item No. 2				**66.65**	127.20	**8477.00**
	Basic Rate	120.00							
	Area Weightage @ 6%	7.20							
	Total	**127.20**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
7	KSRRB M3.1: laying reinforced cement concrete pipe NP4 / prestressed concrete pipe for culverts on first class bedding of granular material in double row including fixing collar with cement morta 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications, A.1000 mm dia, **Page No. 246 / Item No. 34.4 PWD SR 2015-16**	M							
			3	3.00			**9.00**	23586.06	**212275.00**
	Basic Rate	22251.00							
	Area Weightage @ 6%	1335.06							
	Total	**23586.06**							
8	KSRB 13-1.6 : Providing and fixing to wall, ceiling and floor galvanised / mild steel tube 50mm dia nominal bore with fittings (medium grade weight 5.24 kg/mtr) B class including cost of all materials, labour, charges HOM of equipments and testing complete as per specifications. Specification No. KBS 13.2.14 / 13.8 **Page No. 90 / Item No. 13.6 / PWD SR 2015-16**	m							
			1	15.00			**15.00**	534.24	**8014.00**
	Basic Rate	504.00							
	Area Weightage @ 6%	30.24							
	Total	**534.24**							
9	KSRB 13-1.4 : Providing and fixing to wall, ceiling and floor galvanised / mild steel tube 32mm dia nominal bore with fittings (medium grade weight 3.23 kg/mtr) **Page No. 90 / Item No. 13.4 / PWD SR 2015-16**	m							
			1	6.00			**6.00**	366.76	**2201.00**
	Basic Rate	346.00							
	Area Weightage @ 6%	20.76							
	Total	**366.76**							
10	KSRB 13-6.2.1: Providing and fixing in position brass stop cock of approved quality 32mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification NO. KBS 13.2.2 / 13.3 **Page No. 91 / Item No. 13.29 / PWD SR 2015-16**	Each							
			1	4.00			**4.00**	167.48	**670.00**
	Basic Rate	158.00							
	Area Weightage @ 6%	9.48							
	Total	**167.48**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
11	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.48 / PWD SR 2015-16**	Cum							
	Byrappa Garden For CC Road1st Cross		1	75.00	4.50	0.10	33.75		
	2nd Cross		1	20.00	4.50	0.10	9.00		
							42.75	6332.04	**270695.00**
	Basic Rate	5863.00							
	Area Weightage @ 8%	469.04							
	Total	**6332.04**							
12	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **174 / Item No. 22.7 / PWD SR 2015-16**	Sqm							
	Byrappa Garden For CC Road1st Cross		1	75.00	4.50		337.50		
	2nd Cross		1	20.00	4.50		90.00		
							427.50	97.20	**41553.00**
	Basic Rate	90.00							
	Area Weightage @ 8%	7.20							
	Total	**97.20**							
13	Providing **groove cutting** for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine, generator and HOM of machinery including cost of blade coolant etc including cleaning of groove and providing sand and hot bitumne fillars, and filler metal etc., indluding cost of converyance of all materials, labours, lead and lift charges and all other incidental charges as per drawing and as per specification **Concrete Pavement Page No. 175 / Item No. 22.8.1 / PWD SR 2015-16**	Rmt							
			8	4.50			36.00		
			3	4.50			13.50		
							49.50	124.20	**6148.00**
	Basic Rate	115.00							
	Area Weightage @ 8%	9.20							
	Total	**124.20**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
				Vide Item No. 1			**53.32**	100.08	**5336.00**
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								
	Average weight of earth 1.28 tonne / kg for 2X1.28X11.90=30.46	30.46							
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							
		92.66							
	Area Weightage @ 8%	7.41							
	Total	**100.08**							
	Sub Total								**905278.00**
	KRIDL Charges @ 8%								**72422.00**
	QC Charges @ 1%								**9053.00**
	Miscesalaneous Charges								**247.00**
								Total	**987000.00**

Rupees Nine Lakh(s) Eighty Seven Thousand Only

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of PWD 2015-16.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 10

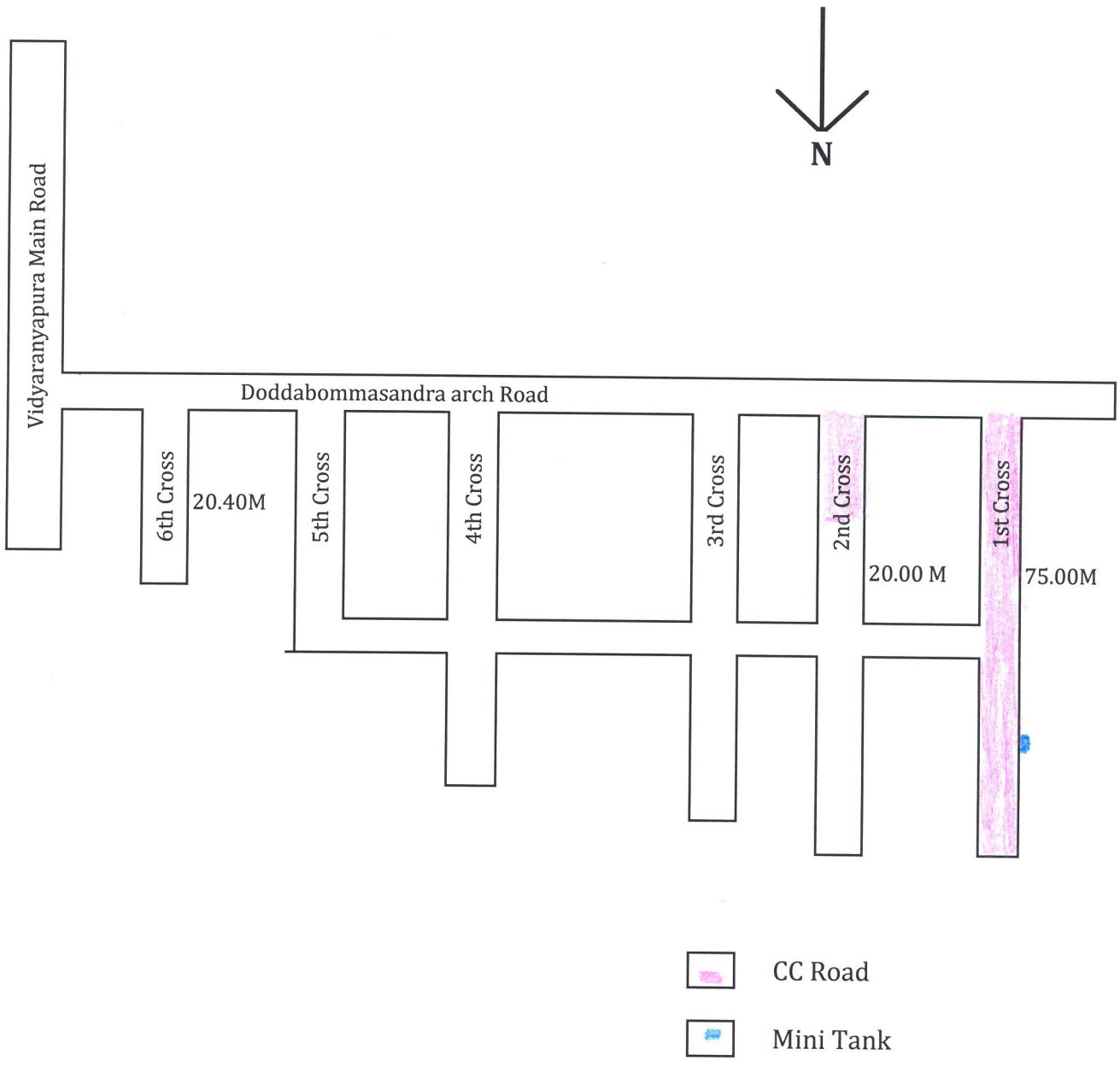
Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer 23/7
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. 9.87 Lakhs.
Head of A/c. P-1878
Div. Ref. No. 10/16-17 Date 23/07/16
AE 23/07 EE(BTP) 23/7

TECHNICAL SANCTION
Accorded For Rs. 9.87 lakhs.
Head of A/c. P-1878.
Div. Ref. No. 13/16-17 Date 23/07/16
AE 23/07 EE(BTP) 23/7

Sketch Showing the Improvements to Roads and Drains at Byrappa Garden in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.



Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Vidyaranyapura Sub Division